

PROCEEDINGS
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CALIFORNIA ACADEMY OF SCIENCES
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XI

**REPORT OF THE PRESIDENT OF THE ACADEMY
FOR THE YEAR 1928**

BY

C. E. GRUNSKY

President of the Academy



The last year's annual report opened with an expression of regret that the excellent work which is being done in the various departments of the Academy is not more fully recognized by the many public-spirited citizens of California who are so circumstanced that they frequently do not know just what use to make of surplus wealth. This statement should again be repeated and later in this report an opportunity will be pointed out which it is hoped will catch someone's fancy.

The membership has not changed materially during the year, being now made up of:

Patrons.....	19
Honorary Members.....	18
Life Members.....	84
Fellows.....	40
Members.....	935
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Total.....	1096

May 22, 1929

On January 1, 1928, the number of members stood at.....	1101
New members added during the year.....	55
Members lost by death.....	22
Members resigned.....	24
Members dropped for non-payment of dues.....	14
	60
Net loss during the year.....	5
Leaving the membership on January 1, 1929, at.....	1096

The Academy carries on its list of patrons the following names:

Living

Mr. George C. Beckley	Mrs. Albert Koebele
Dr. Frank E. Blaisdell	Mr. A. Kingsley Macomber
Mr. William B. Bourn	Mr. John W. Mailliard
Hon. William H. Crocker	Mr. Joseph Mailliard
Mr. Peter F. Dunne	Mr. M. Hall McAllister
Dr. Barton Warren Evermann	*Mr. Ogden Mills
Mr. Herbert Fleishhacker	Mr. William C. Van Antwerp
Mr. W. M. Giffard	Mr. Edward P. Van Duzee
Hon. Joseph D. Grant	Dr. E. C. Van Dyke
Mr. Edward Hohfeld	

Deceased

Mr. William Alvord	Mr. James Lick
Mr. Charles Crocker	Mr. Alexander F. Morrison
Mr. John W. Hendrie	Mr. Amariah Pierce
Mr. William F. Herrin	Mr. Ignatz Steinhart
Mr. Henry M. Holbrook	Dr. John Van Denburgh
Mrs. Charlotte Hosmer	

Those who were called by death in 1928 are as follows:

Mr. John B. Badaracco.....	Member.....	February 26, 1928
Mr. M. E. Beall.....	Member.....	September 1928
Mr. J. O. Beebe.....	Member.....	March 12, 1928
Dr. F. B. Carpenter.....	Member.....	July 16, 1928
Mrs. Crawford W. Clarke.....	Life Member...	February 3, 1928
Dr. William Leon Dawson.....	Member.....	April 30, 1928
Dr. Bashford Dean.....	Honorary Member	December 6, 1928
Mr. Charles W. Doe.....	Member.....	January 12, 1928
Mr. C. L. Fox.....	Member.....	March 13, 1928

*Deceased January 29, 1929.

Dr. Charles Henry Gilbert	Fellow	April 20, 1928
Mr. George Herrmann	Member	September 2, 1928
Mr. Beverly L. Hodghead	Member	October 16, 1928
Mr. Mark Keppel	Member	June 16, 1928
Mr. Leverett Mills Loomis	Life Member	January 12, 1928
Mr. Milnotte McCants	Member	September 4, 1928
Dr. George W. Merritt	Member	March 8, 1928
Dr. John F. Newson	Life Member	November 1928
Mr. W. W. Sargeant	Member	December 4, 1928
Mr. E. E. Schmitz	Member	November 19, 1928
Mr. Gailliard Stoney	Member	March 6, 1928
Professor Albert Van der Naillen	Life Member	October 28, 1928
Mr. H. C. Worth	Member	June 2, 1928

In the year 1928 eleven free lectures were delivered at the stated meetings of the Academy, as follows:

- JANUARY 4. "Palestine, its People, its Agriculture and its Native Flora." Illustrated. By Dr. W. L. Jepson, Professor of Botany, University of California, Berkeley.
- MARCH 7. "Mount Shasta." Illustrated. By Mr. Pierre J. Denand, Associated Oil Company, San Francisco.
- APRIL 4. "Reminiscences of early Academy days." By President Grunsky, Vice-Presidents Edwards and Von Geldern, Miss Alice Eastwood and others.
- MAY 2. "Nature Study and Education." Illustrated. By Mr. Harold Stein, Educational Director, Boy Scouts of America, San Francisco.
- JUNE 6. "Observations on a recent trip to Europe." By Mr. C. B. Lastreto, San Francisco.
- JULY 5. "The Conservation of Fish and Game in California and the Work of the Associated Sportsmen of California." By Mr. E. R. Kauffman, President-Editor, Pacific Sportsman.
- AUGUST 1. "The Garden of Shakespeare's Flowers in Golden Gate Park." By Miss Alice Eastwood, Curator, Department of Botany, California Academy of Sciences, San Francisco.
- SEPTEMBER 5. "The Captain Hancock Expedition to the Galapagos Islands." Illustrated with moving pictures. By Mr. Joseph R. Slevin, Curator, Department of Herpetology, California Academy of Sciences, San Francisco.

- OCTOBER 3. "California State Parks and Monuments." Illustrated. By Mr. Winfield Scott, Director of Public Relations, Western Division, National Lumber Manufacturers Association.
- NOVEMBER 7. Captain Hancock's Galapagos Motion Pictures.
- DECEMBER 5. "Color Photography." Illustrated. By Mr. C. H. Sawyer, San Francisco.

The Sunday lectures at the Museum of the Academy in Golden Gate Park retain their popularity, and the kindness and good-will of those who contribute of their knowledge and experience on these occasions is sincerely appreciated. The following 32 Sunday lectures were delivered during the year 1928:

- JANUARY 8. "A Geological Trip to the Channel Islands with Notes on Their Relations to the Mainland." Illustrated. By Mr. Leo George Hertlein, Assistant Curator, Department of Paleontology, California Academy of Sciences.
- JANUARY 15. "Mountains and Valleys of Colombia." Illustrated. By Mr. Frank M. Anderson, Honorary Curator, Department of Paleontology, California Academy of Sciences.
- JANUARY 22. "Early Entomologists on the Coast, and the Relation of the California Academy of Sciences to their Work." Illustrated. By Dr. E. C. Van Dyke, Associate Professor of Entomology, University of California, Berkeley.
- JANUARY 29. "Organization and Purposes of the Department of Entomology, California Academy of Sciences." By Mr. E. P. Van Duzee, Curator.
- FEBRUARY 5. "Large and Small Moths." Illustrated. By Mr. Hartford H. Keifer, Assistant Curator, Department of Entomology, California Academy of Sciences.
- FEBRUARY 12. "Organization and Purposes of the Department of Fishes, California Academy of Sciences." By Mr. H. Walton Clark, Assistant Curator.
- FEBRUARY 19. Special Program given by the United States National Park Service. "Cliff Dwellers and other Indian Matters Chiefly from the Standpoint of the Archæologist." By Mr. J. L. Nusbaum, Superintendent, Mesa Verde Park. Other members spoke and stereopticon slides and moving pictures were shown.

- FEBRUARY 26. "Organization and Purposes of the Department of Ornithology and Mammalogy, California Academy of Sciences." By Mr. Harry S. Swarth, Curator.
- MARCH 4. "The Gulls of the San Francisco Bay Region." Illustrated. By Mr. Joseph Mailliard, Curator Emeritus, Department of Ornithology and Mammalogy, California Academy of Sciences.
- MARCH 11. "Arrangement and Care of the Museum Collection of Birds and Mammals, in the California Academy of Sciences." By Mrs. Mary E. McLellan Davidson, Assistant Curator.
- MARCH 18. "Organization and Purposes of the Department of Herpetology, of the California Academy of Sciences." By Mr. Joseph R. Slevin, Curator.
- MARCH 25. "Organization and Purposes of the Steinhart Aquarium of the California Academy of Sciences." By Mr. Alvin Seale, Superintendent.
- APRIL 1. "Collecting Fishes for the Steinhart Aquarium." Illustrated. By Mr. Wallace Adams, Assistant Superintendent of the Steinhart Aquarium.
- APRIL 8. "Circumnavigating Iceland." By Dr. George Haley, Professor of Biology, St. Ignatius College, San Francisco.
- APRIL 15. "Organization and Purposes of the Department of Exhibits, of the California Academy of Sciences." By Mr. Frank Tose, Chief.
- APRIL 22. "Organizations and Purposes of the Library, of the California Academy of Sciences." By Mr. Ignatius McGuire, Assistant Librarian.
- APRIL 29. "Personal Experiences in the Philippines." By Dr. Albert W. Herre, Chief, Department of Fisheries, Bureau of Science, Manila, P. I.
- MAY 6. "Songs of Some California Birds." Illustrated. By Mr. C. A. Harwell, Principal, Thousand Oaks School, Berkeley.
- MAY 13. The California State Floral Society had an exhibit of flowers in the Auditorium of the Academy from May 12 to May 13, open each day from 10 to 5 o'clock.
- MAY 20. "Salt." By Dr. George J. Pierce, Professor of Botany and Plant Physiology, Stanford University.
- MAY 27. "Indians of the Southwest." By Mr. Harold Stein, Education Director, Boy Scouts of America, San Francisco.

- OCTOBER 7. "California's Native Trees, the Crowning Glory of her State Parks." By Dr. W. L. Jepson, Professor of Botany, University of California. Illustrated.
- OCTOBER 14. "Saving the Redwoods." Illustrated. By Mr. J. D. Grant, Chairman, Board of Directors of Save the Redwoods League.
- OCTOBER 21. "The State Park Survey." Illustrated. By Professor H. W. Sheperd, Department of Landscape Design, University of California.
- OCTOBER 28. "The California State Park System." By Colonel Charles B. Wing, Chief, Division of Parks, Illustrated.
- NOVEMBER 4. "State Parks—A Good Investment." By Mr. William E. Colby, Chairman, California State Park Commission. Illustrated.
- NOVEMBER 11. "Western Mountain Scenery." By Mr. Francis P. Farquhar, San Francisco. Illustrated.
- NOVEMBER 18. "The History of the Sierra Nevada." By Mr. Francis P. Farquhar, San Francisco.
- NOVEMBER 25. "Some Problems in Game Conservation." By Dr. H. C. Bryant, Director, Bureau of Education, California Division of Fish and Game, San Francisco. Illustrated.
- DECEMBER 2. "The Sea Lions of the California Coast." Illustrated. By Mr. Paul Bonnot, Assistant, California Fish and Game Commission, San Francisco.
- DECEMBER 9. "Age of Oaks in the Bay Region and Some Reasons why they die." Illustrated. By Dr. James J. W. McMurphy, Assistant Professor of Botany, Stanford University.
- DECEMBER 16. "The Eye: Its Structure and Function." Illustrated. By Dr. F. W. Weymouth, Associate Professor of Physiology, Stanford University.

LIST OF ACADEMY PUBLICATIONS IN 1928

That the Academy is actively prosecuting scientific research is evidenced by its publications. The following have been issued within the year :

- OCCASIONAL PAPERS, No. XV.—STUDIES ON MARINE OSTRACODS, PART II, EXTERNAL MORPHOLOGY OF THE GENUS *CYTHEREIS* WITH DESCRIPTIONS OF TWENTY-ONE NEW SPECIES, by Tage Skogsberg; pp. 1-144, plates 1-6, 23 Text Figures. (Issued August 24, 1928.)

OCCASIONAL PAPERS, No. XVI.—THE AMPHIBIANS OF WESTERN NORTH AMERICA. AN ACCOUNT OF THE SPECIES KNOWN TO INHABIT CALIFORNIA, ALASKA, BRITISH COLUMBIA, WASHINGTON, OREGON, IDAHO, UTAH, NEVADA, ARIZONA, SONORA AND LOWER CALIFORNIA. By Joseph R. Slevin; pp. 1-144, plates 1-23. (Issued September 15, 1928.)

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Vol. XVI, No. 21, pp. 681-684, plates 25 and 26—DESCRIPTION OF A NEW SPECIES OF LIZARD FROM MALPELO ISLAND, by Joseph R. Slevin. (Issued February 28, 1928.)

Vol. XVI, No. 22, pp. 685-688, plates 27 and 28—DESCRIPTIONS OF TWO NEW SPECIES OF FISHES FROM OFF CAPE SAN LUCAS, LOWER CALIFORNIA, by Barton Warren Evermann and H. Walton Clark. (Issued February 28, 1928.)

Vol. XVI, No. 23, pp. 689-698—REPORT OF THE PRESIDENT OF THE ACADEMY FOR THE YEAR 1927, by C. E. Grunsky. (Issued May 22, 1928.)

Vol. XVI, No. 24, pp. 699-758—REPORT OF THE DIRECTOR OF THE MUSEUM FOR THE YEAR 1927. By Barton Warren Evermann. (Issued May 22, 1928.)

Vol. XVI, 1927 to 1928—INDEX TO VOLUME XVI, FOURTH SERIES.

Vol. XVII, No. 1, pp. 1-29, plate 1, 11 text figures—NOTES ON LOWER TERTIARY DEPOSITS OF COLOMBIA AND THEIR MOLLUSCAN AND FORAMINIFERAL FAUNA, by F. M. Anderson. (Issued June 22, 1928.)

Vol. XVII, No. 2, pp. 31-65, 34 text figures—NEW MYCETOPHILIDÆ TAKEN IN CALIFORNIA AND ALASKA, by M. C. Van Duzee. (Issued June 22, 1928.)

Vol. XVII, No. 3, pp. 67-87—A KEY TO THE SPECIES OF EUCALYPTUS GROWN IN CALIFORNIA, by Eric Walther. (Issued June 22, 1928.)

Vol. XVII, No. 4, pp. 89-139—TERTIARY AND PLEISTOCENE MOLLUSCA FROM THE GALAPAGOS ISLANDS, plates 2-7, five text figures. By William Healey Dall and Washington Henry Ochsner. (Issued June 22, 1928.)

Vol. XVII, No. 5, pp. 141-185, plates 8, 9—LAND SHELLS OF THE GALAPAGOS ISLANDS, by William Healey Dall and Washington Henry Ochsner. (Issued June 22, 1928.)

Vol. XVII, No. 6, pp. 187-203, plate 10—WEST AMERICAN MOLLUSCA OF THE GENUS PHASIANELLA, by A. M. Strong. (Issued June 29, 1928.)

Vol. XVII, No. 7, pp. 205-246, plates 11 and 12—SOME PYRAMIDELLIDÆ FROM THE GULF OF CALIFORNIA, by Fred Baker, G. Dallas Hanna and A. M. Strong. (Issued June 29, 1928.)

Vol. XVII, No. 8, pp. 247-251—OCCURENCE OF SOME ASIATIC BIRDS IN ALASKA, by Harry S. Swarth. (Issued July 10, 1928.)

Vol. XVII, No. 9, pp. 253-265, 17 text figures—A COMMENSAL POLYNOID WORM FROM CALIFORNIA, by Tage Skogsberg. (Issued July 10, 1928.)

Vol. XVII, No. 10, pp. 267-295, 26 text figures—STRUCTURE AND BEHAVIOR OF THE AMPHIPOD, POLYCHERIA OSBORNI, by Tage Skogsberg and G. H. Vansell. (Issued July 10, 1928.)

ITEMS OF INTEREST

The Treasurer's report presents the facts relating to the Academy's financial standing. There has, during the year, been a further reduction of the Academy's indebtedness to the Hibernia Savings and Loan Society from \$215,000 to \$205,000. In addition to the \$10,000 payment on capital account which this involved, an investment was made, out of surplus, in 55 shares of American Trust Company stock amounting to \$6,471.50. Otherwise the net income of the Academy has as heretofore been practically all expended in the care and maintenance of its property and in furthering research work and adding to its natural history material.

The Museum of the Academy and the Steinhart Aquarium have been open as usual free to the public every day in the year. Favorable location in Golden Gate Park has resulted in a sustained large attendance. There were 540,702 visitors to the Museum and 956,845 to the Aquarium.

Last year the resignation of Mr. W. W. Sargent, who had long been Secretary of the Board of Trustees, was noted. This year we note with sorrow his name among the members whom the Academy has lost by death. Death has taken, too, Mr. Leverett M. Loomis, who for many years was Curator of the Department of Ornithology, and, later, Director of the Museum, whose valuable services to the Academy in securing exemption from taxation and in securing from San Francisco the right to erect Academy buildings in Golden Gate Park will be recalled by older members. The Academy has had but few members who could claim such unflinching interest in the affairs of the Academy and in the study of birds as Mr. Loomis.

The Diamond Anniversary of the founding of the Academy was celebrated on April 4, 1928. On this occasion there was a reception at the Museum with appropriate addresses by Joseph D. Grant, Vice-President of the Board of Trustees;

Dr. Barton Warren Evermann, Director of the Museum, and the President.

At the regular meeting on the evening of the same day, Reminiscences were indulged in to which there were contributions notably by Vice-President George C. Edwards and Otto von Geldern, and by Miss Alice Eastwood, the President, and others.

It is with no little satisfaction that the fact can be recorded that the President elect of the United States, Herbert C. Hoover, has long been a member of the Academy.

About the middle of the year a munificent offer was made to the Academy by Mr. Leslie Simson of Berkeley, California, which is perhaps best explained by reproducing a statement which has been given wide circulation, but which has not as yet produced any result. This statement is as follows:

"The people of San Francisco, recognizing the high order of the scientific and educational work which is being done by the California Academy of Sciences ever since its organization in 1853, granted the Academy some years ago the right to erect its museum and research buildings in Golden Gate Park. The Academy, without expense to the City, maintains there its Natural History Museum, in a building erected at its own expense, and open every day free to the public.

"The generous bequest to the Academy by the late Ignatz Steinhart has enabled it to add the Aquarium. The City of San Francisco supplies to the Academy the funds which are necessary for the operation of the Aquarium.

"Now another public-spirited citizen comes forward offering to go to Africa to spend about four years there collecting specimens of wild animals for the Academy. He has lived in Africa and is an experienced, skillful hunter of big game. He knows what can be done. He proposes to meet all expenses of the expedition and to have the specimens prepared and shipped from time to time as they become available, and delivered, without cost to the Academy, at San Francisco.

"What he proposes to do would, if an expedition were organized for the purpose, cost the Academy more than half a million dollars. He conditions his proposal upon suitable assurance from the Academy that the material which he furnishes will be properly housed, but he couples this condition with the further offer that if the Academy will accept his

proposition, he will at once place to the credit of the Academy one hundred and fifty thousand dollars as a contribution toward the cost of a suitable addition to the Academy buildings in Golden Gate Park, he to receive income from this sum, however, during his life time.

"The Academy desires to accept this proposition, but is not so circumstanced as to do so without outside help. It would make its tentative acceptance positive, if someone would now come forward with a gift or an endowment of about two hundred thousand dollars. This amount is named as a minimum. It is far short of erecting the housing facilities which are needed for the African Exhibit. It would have to be supplemented with a loan, and even then the Academy would still be far behind what is needed to keep its activities abreast of the growth of the Pacific Slope. The Academy has urgent immediate need for facilities comparable with those which people of means have been or are supplying in all the large American cities.

"New York, for example, has that great institution, the richly endowed American Museum of Natural History, an expedition from which has for some years been in Africa collecting material for habitat groups. Chicago has its Field Museum and is now adding an aquarium. The latter alone will cost about three million dollars, furnished by a public-spirited citizen. Los Angeles already has material on hand for an African Exhibit and is now erecting a building at a cost of about one and one-half million dollars to house the same.

"Some one may be waiting for this opportunity, not alone to establish a personal or family memorial in Golden Gate Park, but also to make available for the furthering of scientific activities the munificent donation of service and financial aid covered by the pending generous offer above explained. This can be done by gift or an endowment, by a trust, or otherwise.

"Further information relating to the activities and aspirations of the Academy will be gladly furnished."

The Committee which has this matter in charge and by whom this circular was issued expressed to the Trustees the conviction that every possible effort should be put forth to

secure such a donation of funds or an endowment as would make the acceptance of Mr. Simson's generous offer possible.

It would be most appropriate for San Francisco to provide the necessary funds and also the funds for an addition to the Steinhart Aquarium which should be provided in the near future. But this would probably involve a bond issue and would take time. Unless some generous friend comes forward and helps out, the offer by Mr. Simson as stated in the circular may have to be declined. This would indeed be unfortunate.

The scientific and other activities of the Academy during the year will be fully reviewed in the Report of the Director of the Museum, and it need only be added that the Curators in charge of the several departments and the Superintendent of the Aquarium may well be proud of the results, achieved with the means at command.

To all who have contributed by giving of their time and knowledge and who, like Mr. Edward Hohfeld, have assisted with advice and to those who have added to the Academy's wealth of natural history and other material the Academy expresses its obligation and appreciation.

The new year is begun with confidence in continued usefulness and the hope and desire for an increasing rate of progress.